

**CLAIMS**

1. The use of idebenone in a composition intended for being applied on the skin, characterized in that it is used to inhibit melanogenesis.
- 5 2. The use of idebenone in a composition intended for being applied on the skin according to claim 1, characterized in that it is used to reduce the coloration of the skin or to lighten it in the application site.
3. The use of idebenone in a composition intended for being applied on the skin according to claim 1, characterized in that it is used to cause depigmentation of the skin in the application site.
- 10 4. The use of idebenone in a cosmetic, pharmaceutical and/or dermatological composition intended for being applied on the skin according to claim 1, characterized in that it is used to cause depigmentation of the skin in pigmented sites due to skin disorders.
- 15 5. The use of idebenone according to claim 4, characterized in that the skin disorders are selected from psoriasis, rosacea, photodamaged skin, atopic dermatitis, post-medicinal hyperpigmentation, post-inflammatory hyperpigmentation pregnancy-induced chloasma and seborrheic dermatitis.
- 20 6. A cosmetic, pharmaceutical and/or dermatological composition intended for being applied on the skin, characterized in that it comprises idebenone or a derivative thereof, and in that the idebenone or its derivative are in an effective amount so as to cause depigmentation of the skin.
- 25 7. A composition intended for being applied on the skin according to claim 6, characterized in that it comprises idebenone or a derivative thereof, and in that the idebenone or its derivative are in an effective amount comprised between 0.1% and 10% w/w.
8. A composition intended for being applied on the skin according to claim 6, characterized in that it comprises idebenone or a derivative thereof, and in that the idebenone or its derivative are in an effective amount comprised between 0.3% and 5% w/w.
- 30 9. A composition intended for being applied on the skin according to claim 6 or 7, characterized in that is in occlusive patch form.
10. A composition intended for being applied on the skin according to claim 6 or 7, characterized in that is in cream form.
- 35 11. A composition intended for being applied on the skin according to claim 6 or 7, characterized in that is in gel form.

12. A composition intended for being applied on the skin according to claim 6 or 7, characterized in that is in emulsion form.
13. A composition intended for being applied on the skin according to claim 6 or 7, characterized in that is in aerosol form.
- 5 14. A composition intended for being applied on the skin according to claim 6 or 7, characterized in that the idebenone is liposomated, complexed or in a controlled release system.
15. A composition intended for being applied on the skin according to claim 6 or 7, characterized in that it further comprises oily components and hydrosoluble  
10 components.
16. A composition intended for being applied on the skin according to claim 14, characterized in that it comprises autoemulsifiable wax, vaseline, isopropyl myristate and cetyl alcohol.
17. A composition intended for being applied on the skin according to claim 14,  
15 characterized in that it comprises glycerin, methylparaben and propylparaben.
18. A composition intended for being applied on the skin according to claim 14, characterized in that it further comprises beneficial agents for the skin, sun screens and/or filters.
19. A composition intended for being applied on the skin according to claim 14,  
20 characterized in that it further comprises cosmetically and/or pharmaceutically acceptable antioxidizing agents.
20. A method for treating unwanted skin pigmentation, characterized in that it  
25 comprises applying on the pigmented site a composition comprising an effective depigmenting dose of idebenone, allowing it to act over night and rinsing it off in the morning.